

IN THE CLAIMS:

Please amend Claims 1, 5, 12, 20 to 26, 30 and 33 to 36 as shown below.

The claims, as pending in the subject application, now read as follows:

1. (Currently amended) A data processing apparatus which can transmit a printing job to an image recording apparatus having plural holding units each capable of holding plural sheets or an image recording apparatus capable of connecting with an option apparatus having plural holding units, said data processing apparatus comprising:

holding unit name registration means for accepting, in order to register plural discrimination names including a user name and names of plural groups to which a user corresponding to the user name belongs for each of the plural holding units of said image recording apparatus, designation of the user name and the names of the plural groups to which the user corresponding to the user name belongs, and for transmitting the designation content to said image recording apparatus;

holding unit name capture means for capturing the plural discrimination names registered to each of the holding units of said image recording apparatus, from said image recording apparatus; and

job creation means for accepting, when creating the printing job, designation that the plural discrimination names captured by said holding unit name capture means are set as sheet discharge addresses of the printing job, and actually creating the printing job including the accepted sheet discharge address designation by the plural discrimination names,

wherein said job creation means enables to set, selectively, the designation of the sheet discharge address based on the user name and the designation of the sheet discharge address based on the group name with respect to each job, and

wherein said data processing apparatus further comprises a controller adapted to cause said image recording apparatus to execute, in a case where, from a first-type print job that the designation of the sheet discharge address based on the group name is not set and a second-type print job that the designation of the sheet discharge address based on the group name is at least set, said second-type print job is transmitted to the said image recording apparatus, the print process of the same page in said second-type print job plural times.

2. (Original) An apparatus according to Claim 1, wherein said holding unit name registration means also accepts designation of an E-mail address of the user corresponding to the designated user name, and transmits the designation content including the E-mail address to said image recording apparatus.

3. (Original) An apparatus according to Claim 1, wherein the discrimination name is information representing an owner who exclusively uses the holding unit.

4. (Original) An apparatus according to Claim 1, wherein said holding unit name registration means inputs or selectively designates the user name and the names of the plural groups to which the user corresponding to the user name belongs in order to register the plural discrimination names for each of the holding units of said image recording apparatus.

5. (Currently amended) A data processing apparatus which can transmit a printing job to an image recording apparatus having plural holding units or an image recording apparatus capable of connecting with an option apparatus having plural holding units, said data processing apparatus comprising:

holding unit name capture means for capturing from said image recording apparatus plural discrimination names registered to each of the holding units of said image recording apparatus, the plural discrimination names including a user name and names of plural groups to which a user corresponding to the user name belongs; and

job creation means for accepting, when creating the printing job, designation that the plural discrimination names captured by said holding unit name capture means are set as sheet discharge addresses of the printing job, and actually creating the printing job including the accepted sheet discharge address designation by the plural discrimination names,

wherein said job creation means enables to set, selectively, the designation of the sheet discharge address based on the user name and the designation of the sheet discharge address based on the group name with respect to each job, and

wherein said data processing apparatus further comprises a controller adapted to cause said image recording apparatus to execute, in a case where, from a first-type print job that the designation of the sheet discharge address based on the group name is not set and a second-type print job that the designation of the sheet discharge address based on the group name is at least set, said second-type print job is transmitted to said image recording apparatus, the print process of the same page in said second-type print job plural times.

6. (Original) An apparatus according to Claim 5, further comprising:

sheet discharge information capture means for capturing sheet discharge end information and holding unit monitoring information notified by said image recording apparatus; and

display means for displaying a message to the user on the basis of the sheet discharge end information and the holding unit monitoring information captured by said sheet discharge information capture means.

7. (Original) An apparatus according to Claim 6, wherein said sheet

discharge information capture means captures E-mail addresses registered to all the holding units to which the sheet discharge was performed, when a sheet discharge end notification of the printing job is received, and

transmission means is provided to transmit an E-mail notifying the sheet discharge end to the E-mail addresses captured by said sheet discharge information capture means.

8. (Original) An apparatus according to Claim 6, wherein said job creation

means accepts designation whether or not an E-mail notification after printing end should be performed, and adds the designation whether or not the E-mail notification should be performed to the printing job on the basis of this designation.

9. (Original) An apparatus according to Claim 7, further comprising E-mail

notification designation means for designating whether or not an E-mail notification after printing end should be performed,

wherein, when the sheet discharge end notification of the printing job is received by said sheet discharge information capture means, said transmission means controls the E-mail notification on the basis of a designation state of said E-mail notification designation means.

10. (Previously presented) An apparatus according to Claim 7, wherein the E-mail includes information such as a name of the user designating the printing job, a content of the printing job, the number of printing in the printing job, the number of output copies in the printing job, a date when the printing job was output, and information concerning the image recording apparatus from which the printing job was output.

11. (Original) An apparatus according to Claim 7, wherein said transmission means transmits the E-mail to the E-mail address of the user corresponding to the user name registered to the holding unit to which the printing job was discharged or the E-mail address of each user who belongs to the group corresponding to the group name registered to the holding unit to which the printing job was discharged.

12. (Currently amended) An image recording apparatus which can sort plural printing jobs received from plural superior apparatuses through a predetermined communication medium and discharge the sorted printing jobs to plural holding units, said image recording apparatus comprising:

registration means for registering in a memory plural discrimination names to each of the holding units, the plural discrimination names including a user name and names of plural groups to which a user corresponding to the user name belongs and being

transmitted from each of said superior apparatuses or directly designated from an operation unit;

discrimination name notification means for notifying said superior apparatus of the plural discrimination names registered by said registration means, in accordance with a request from said superior apparatus; and

sheet discharge control means for discharging the printing job to which the discrimination name has been designated to the holding unit to which the discrimination name same as the discrimination name designated as a sheet discharge address to the printing job has been designated,

wherein said image recording apparatus enables to accept the printing job in which the designation of the sheet discharge address based on the user name and the designation of the sheet discharge address based on the group name are selectively set with respect to each job, and

wherein said image recording apparatus further comprises a controller adapted to cause said image recording apparatus to execute, in a case where, from a first-type print job that the designation of the sheet discharge address based on the group name is not set and a second-type print job that the designation of the sheet discharge address based on the group name is at least set, said second-type print job is accepted by said image recording apparatus, the print process of the same page in said second-type print job plural times.

13. (Original) An apparatus according to Claim 12, further comprising sheet discharge end notification means for notifying said superior apparatus of the end of an

image recording process of the printing job, after the image recording process of the printing job was ended by said sheet discharge control means; and

holding unit monitoring means for always monitoring a state of each of the holding units, updating the state, and if necessary notifying said superior apparatus of a change of the holding unit state.

14. (Original) An apparatus according to Claim 12, wherein said registration means stores a discrimination name registration content including an E-mail address notified from said superior apparatus in the memory, and

E-mail transmission means is provided to transmit an E-mail notifying the sheet discharge end in accordance with E-mail addresses registered to the respective holding units to which the printing job was discharged, after an image recording process of the printing job was ended by said sheet discharge control means.

15. (Original) An apparatus according to Claim 14, wherein said E-mail transmission means controls whether or not an E-mail notification should be performed, on the basis of an instruction whether or not the E-mail notification designated to the printing job should be performed.

16. (Original) An apparatus according to Claim 13, wherein said registration means stores a discrimination name registration content including an E-mail address in the memory, and

said sheet discharge end notification means notifies said superior apparatus of the E-mail addresses registered to all the holding units to which the printing job was

discharged, after the image recording process of the printing job was ended by said sheet discharge control means.

17. (Previously presented) An apparatus according to Claim 14, wherein the E-mail includes information such as a name of the user designating the printing job, a content of the printing job, the number of printing in the printing job, the number of output copies in the printing job, a date when the printing job was output, and information concerning the image recording apparatus from which the printing job was output, and said E-mail transmission means transmits the E-mail to the E-mail address of the user corresponding to the user name registered to the holding unit to which the printing job was discharged or the E-mail address of the user who belongs to the group corresponding to the group name registered to the holding unit to which the printing job was discharged.

18. (Original) An apparatus according to Claim 12, wherein the discrimination name is information representing an owner who exclusively uses the holding unit, and is obtained by directly inputting or selecting a name according to a user's usage by the user on said superior apparatus or said operation unit.

19. (Original) An apparatus according to Claim 12, wherein plural holding units are provided on the body of said image recording apparatus, or an option apparatus having plural holding units is connectable.



20. (Currently amended) A control method for a data processing apparatus which can transmit a printing job to an image recording apparatus having plural holding units or an image recording apparatus capable of connecting with an option apparatus having plural holding units, said method comprising:

a holding unit name registration step of accepting, in order to register plural discrimination names including a user name and names of plural groups to which a user corresponding to the user name belongs for each of the plural holding units of the image recording apparatus, designation of the user name and the names of the plural groups to which the user corresponding to the user name belongs, and of transmitting the designation content to the image recording apparatus;

a holding unit name capture step of capturing the plural discrimination names registered to each of the holding units of the image recording apparatus, from the image recording apparatus; and

a job creation step of accepting, when creating the printing job, designation that the plural discrimination names captured from the image recording apparatus are set as sheet discharge addresses of the printing job, and actually creating the printing job including the accepted sheet discharge address designation by the plural discrimination names,

wherein said job creation step enables to set, selectively, the designation of the sheet discharge address based on the user name and the designation of the sheet discharge address based on the group name with respect to each job, and

wherein said control method further comprises a controlling step of causing the image recording apparatus to execute, in a case where, from a first-type print job that the designation of the sheet discharge address based on the group name is not set and a

second-type print job that the designation of the sheet discharge address based on the group name is at least set, said second-type print job is transmitted to the image recording apparatus, the print process of the same page in said second-type print job plural times.

21. (Currently amended) A control method for a data processing apparatus which can transmit a printing job to an image recording apparatus having plural holding units or an image recording apparatus capable of connecting with an option apparatus having plural holding units, said method comprising:

a holding unit name capture step of capturing from the image recording apparatus plural discrimination names registered to each of the holding units of the image recording apparatus, the plural discrimination names including a user name and names of plural groups to which a user corresponding to the user name belongs; and

a job creation step of accepting, when creating the printing job, designation that the plural discrimination names captured from the image recording apparatus are set as sheet discharge addresses of the printing job, and actually creating the printing job including the accepted sheet discharge address designation by the plural discrimination names,

wherein said job creation step enables to set, selectively, the designation of the sheet discharge address based on the user name and the designation of the sheet discharge address based on the group name with respect to each job, and

wherein said control method further comprises a controlling step of causing the image recording apparatus to execute, in a case where, from a first-type print job that the designation of the sheet discharge address based on the group name is not set and a second-type print job that the designation of the sheet discharge address based on the group

name is at least set, said second-type print job is transmitted to the image recording apparatus, the print process of the same page in said second-type print job plural times.

22. (Currently amended) A control method for an image recording apparatus which can sort printing jobs received from plural superior apparatuses through a predetermined communication medium and discharge the sorted printing jobs to plural holding units, said method comprising:

a registration step of registering in a memory plural discrimination names to each of the holding units, the plural discrimination names including a user name and names of plural groups to which a user corresponding to the user name belongs and being transmitted from each of said superior apparatuses or directly designated from an operation unit;

a discrimination name notification step of notifying the superior apparatus of the registered plural discrimination names, in accordance with a request from the superior apparatus;

a sheet discharge step of discharging the printing job to which the discrimination name has been designated to the holding unit to which the discrimination name same as the discrimination name designated as a sheet discharge address to the printing job has been designated;[[, and]]

a step of enabling to accept the printing job in which the designation of the sheet discharge address based on the user name and the designation of the sheet discharge address based on the group name are selectively set with respect to each job; and

a control step of causing the image recording apparatus to execute, in a case where, from a first-type print job that the designation of the sheet discharge address based

on the group name is not set and a second-type print job that the designation of the sheet discharge address based on the group name is at least set, said second-type print job is accepted by the image recording apparatus, the print process of the same page in said second-type print job plural times.

23. (Currently amended) A storage medium which computer-readably stores a program for causing a data processing apparatus which can transmit a printing job to an image recording apparatus having plural holding units or an image recording apparatus capable of connecting with an option apparatus having plural holding units, to execute:

a holding unit name registration step of accepting, in order to register plural discrimination names including a user name and names of plural groups to which a user corresponding to the user name belongs for each of the plural holding units of the image recording apparatus, designation of the user name and the names of the plural groups to which the user corresponding to the user name belongs, and of transmitting the designation content to the image recording apparatus;

a holding unit name capture step of capturing the plural discrimination names registered to each of the holding units of the image recording apparatus, from the image recording apparatus; and

a job creation step of accepting, when creating the printing job, designation that the plural discrimination names captured from the image recording apparatus are set as sheet discharge addresses of the printing job, and actually creating the printing job including the accepted sheet discharge address designation by the plural discrimination names,

wherein said job creation step enables to set, selectively, the designation of the sheet discharge address based on the user name and the designation of the sheet discharge address based on the group name with respect to each job, and

wherein said program further executes a controlling step of causing the image recording apparatus to execute, in a case where, from a first-type print job that the designation of the sheet discharge address based on the group name is not set and a second-type print job that the designation of the sheet discharge address based on the group name is at least set, said second-type print job is transmitted to the image recording apparatus, the print process of the same page in said second-type print job plural times.

24. (Currently amended) A storage medium which computer-readably stores a program for causing a data processing apparatus which can transmit a printing job to an image recording apparatus having plural holding units or an image recording apparatus capable of connecting with an option apparatus having plural holding units, to execute:

a holding unit name capture step of capturing from the image recording apparatus plural discrimination names registered to each of the holding units of the image recording apparatus, the plural discrimination names including a user name and names of plural groups to which a user corresponding to the user name belongs; and

a job creation step of accepting, when creating the printing job, designation that the plural discrimination names captured from the image recording apparatus are set as sheet discharge addresses of the printing job, and actually creating the printing job including the accepted sheet discharge address designation by the plural discrimination names,

wherein said job creation step enables to set, selectively, the designation of the sheet discharge address based on the user name and the designation of the sheet discharge address based on the group name with respect to each job, and

wherein said program further executes a controlling step of causing the image recording apparatus to execute, in a case where, from a first-type print job that the designation of the sheet discharge address based on the group name is not set and a second-type print job that the designation of the sheet discharge address based on the group name is at least set, said second-type print job is transmitted to the image recording apparatus, the print process of the same page in said second-type print job plural times.

25. (Currently amended) A storage medium which computer-readably stores a program for causing an image recording apparatus which can sort printing jobs received from plural superior apparatuses through a predetermined communication medium and discharge the sorted printing jobs to plural holding units, to execute:

a registration step of registering in a memory plural discrimination names to each of the holding units, the plural discrimination names including a user name and names of plural groups to which a user corresponding to the user name belongs and being transmitted from each of said superior apparatuses or directly designated from an operation unit;

a discrimination name notification step of notifying the superior apparatus of the registered plural discrimination names, in accordance with a request from the superior apparatus;

a sheet discharge step of discharging the printing job to which the discrimination name has been designated to the holding unit to which the discrimination

name same as the discrimination name designated as a sheet discharge address to the printing job has been designated;[[, and]]

a step of enabling to accept the printing job in which the designation of the sheet discharge address based on the user name and the designation of the sheet discharge address based on the group name are selectively set with respect to each job; and

a control step of causing the image recording apparatus to execute, in a case where, from a first-type print job that the designation of the sheet discharge address based on the group name is not set and a second-type print job that the designation of the sheet discharge address based on the group name is at least set, said second-type print job is accepted by the image recording apparatus, the print process of the same page in said second-type print job plural times.

26. (Currently amended) An image recording apparatus which can connect with a sheet processing apparatus having plural storage units capable of storing sheets, comprising:

reception means for receiving data including image data from a remote data processing apparatus;

image recording means for recording an image based on the received image data, on a sheet; and

control means for performing control, according as first data instructing to distribute the sheets to the storage unit belonging to which of plural groups of the grouped storage units is included in the data received from said remote data processing apparatus, to distribute the sheets on which the image data from said remote data processing apparatus has been recorded to the storage unit belonging to the group according to the first data,

wherein said control means enables said image recording apparatus to accept the printing job in which the first data is selectively set with respect to each job, and in a case where, from a first-type print job that the first data is not set and a second-type print job that the first data is set, said second-type print job is accepted by said image recording apparatus, it enables said image recording apparatus to execute the print process of the same page in said second-type print job plural times.

27. (Original) An apparatus according to Claim 26, wherein, when second data discriminatingly instructing for each storage unit to distribute the sheets to which of the plural storage units is included in the data received from said remote data processing apparatus together with the first data, said control means performs control to distribute the sheets on which the image data from said remote data processing apparatus has been recorded to the storage units belonging to the group according to the first data and the storage unit according to the second data.

28. (Original) An apparatus according to Claim 26, wherein, according as the first data is included in the data received from said remote data processing apparatus, the image recording of the image data of a same page is performed plural times without receiving the image data of the same page from said remote data processing apparatus plural times.

29. (Original) An apparatus according to Claim 27, further comprising notification means for notifying each user belonging to the group according to the first data and a user according to the second data that the sheets were distributed.



30. (Currently amended) A data processing apparatus which can transmit data including image data to be recorded, to an image recording apparatus capable of connecting with a sheet processing apparatus having plural storage units capable of storing sheets, said data processing apparatus comprising:

generation means for generating first data based on an operator's instruction for instructing to distribute the sheets to the storage units belonging to which of plural groups of the grouped storage units;

transmission means for correlating the first data with the image data and transmitting the correlated data to said image recording apparatus;[[,]] and

setting means for enabling to set whether or not to set the first data with respect to each job,

wherein said data processing apparatus further comprises a controller adapted to, in a case where, from a first-type print job that the first data is not set and as second-type print job that the first data is set, said second-type print job is transmitted to said image recording apparatus, to enable said image recording apparatus to execute, the print process of the same page in said second-type print job plural times.

31. (Original) An apparatus according to Claim 30, wherein said generation means can generate, together with the first data, second data based on an operator's instruction for discriminatingly instructing for each storage unit to distribute the sheets to which of the plural storage units, and

said transmission means can make as the data to be transmitted to said image recording apparatus a set of the first data and the second data, correlate the set of the data with the image data, and transmit the correlated data.

32. (Original) An apparatus according to Claim 31, further comprising capture means for capturing storage unit information output from said image recording apparatus and previously set for the plural storage units, in accordance with a request from said data processing apparatus; and

display control means for causing a display unit to display a screen based on the captured information,

wherein said transmission means can make the set of the first data and the second data both generated based on the operator's instructions input through said screen as the data to be transmitted to said image recording apparatus, correlate the set of the data with the image data, and transmit the correlated data.

33. (Currently amended) A control method for an image recording apparatus which can connect with a sheet processing apparatus having plural storage units capable of storing sheets, said method comprising:

a reception step of receiving data including image data from a remote data processing apparatus;

an image recording step of recording an image based on the received image data, on a sheet;

a control step of performing control, according as first data instructing to distribute the sheets to the storage unit belonging to which of plural groups of the grouped storage units is included in the data received from the remote data processing apparatus, to distribute the sheets on which the image data from the remote data processing apparatus has been recorded to the storage unit belonging to the group according to the first data;[[, and]]

a step of enabling the image recording apparatus to accept the printing job in which the first data is selectively set with respect to each job; and

a step of, in a case where, from a first-type print job that the first data is not set and a second-type print job that the first data is set, said second-type print job is accepted by the image recording apparatus, enabling the image recording apparatus to execute the print process of the same page in said second-type print job plural times.

34. (Currently amended) A computer-readable storage medium which stores a program to cause an image recording apparatus which can connect with a sheet processing apparatus having plural storage units capable of storing sheets, to execute:

a reception step of receiving data including image data from a remote data processing apparatus;

an image recording step of recording an image based on the received image data, on a sheet; and

a control step of performing control, according as first data instructing to distribute the sheets to the storage unit belonging to which of plural groups of the grouped storage units is included in the data received from the remote data processing apparatus, to distribute the sheets on which the image data from the remote data processing apparatus has been recorded to the storage unit belonging to the group according to the first data;[[, and]]

a step of enabling the image recording apparatus to accept the printing job in which the first data is selectively set with respect to each job; and

a step of, in a case where, from a first-type print job that the first data is not set and a second-type print job that the first data is set, said second-type print job is

accepted by the image recording apparatus, enabling the image recording apparatus to execute the print process of the same page in said second-type print job plural times.

35. (Currently amended) A data processing method which can transmit data including image data to be recorded, to an image recording apparatus capable of connecting with a sheet processing apparatus having plural storage units capable of storing sheets, said method comprising:

a generation step of generating first data based on an operator's instruction for instructing to distribute the sheets to the storage units belonging to which of plural groups of the grouped storage units; and

a transmission step of correlating the first data with the image data and transmitting the correlated data to the image recording apparatus;[[, and]]

a setting step of enabling to set whether or not to set the first data with respect to each job; and

a step of, in a case where, from a first-type print job that the first data is not set and a second-type print job that the first data is set, said second-type print job is accepted by the image recording apparatus, enabling the image recording apparatus to execute the print process of the same page in said second-type print job plural times.

36. (Currently amended) A computer-readable storage medium which stores a program to cause a data processing apparatus which can transmit data including image data to be recorded, to an image recording apparatus capable of connecting with a sheet processing apparatus having plural storage units capable of storing sheets, to execute:

a generation step of generating first data based on an operator's instruction for instructing to distribute the sheets to the storage units belonging to which of plural groups of the grouped storage units;

a transmission step of correlating the first data with the image data and transmitting the correlated data to the image recording apparatus;[[, and]]

a setting step of enabling to set whether or not to set the first data with respect to each job; and

a step of, in a case where, from a first-type print job that the first data is not set and a second-type print job that the first data is set, said second-type print job is accepted by the image recording apparatus, enabling the image recording apparatus to execute the print process of the same page in said second-type print job plural times.